

# **H**AZARD **A**LERT **L**IVE **T**OMORROW

## **Near Miss/Serious Electrical Accident**

On October 24, 2001, a certified electrician with 3.8 years electrical experience received serious injuries when he contacted one phase of an energized 13,800 volt circuit located on the surface area of an underground coal mine. The victim intended to replace a high voltage fused disconnecting device that provided electrical power to the mine fan circuit and de-energized the wrong circuit. The victim was standing on an aluminum ladder when he received the electrical shock and then fell 25 feet to the ground below. Two other employees holding the ladder also received an electrical shock.



Location Of The Victim

Disconnect – The Victim Was Changing



Disconnects – Victim Failed To Pull Correct Disconnects



Common Substation

Fan Disconnects – Not Opened

Mine Disconnects – Opened



Grounding tree – victim failed to use (was available at the mine site).

### **Safety Keypoints**

1. **Disconnecting devices shall be de-energized, locked out and suitably tagged by the person performing such work.**
2. **All high voltage circuits shall be grounded before repair work is performed.**
3. **Multiple high voltage circuits fed from a common substation shall be marked for identification to ensure the correct circuit has been de-energized.**
4. **REMEMBER!! IF A CIRCUIT IS NOT GROUNDED - THEN IT IS NOT DEAD!**

